

ABSTRACT

A truncated glucanase with an improved thermal stability and a higher specific enzymatic activity than the wild-type enzyme. The truncated glucanase is
5 obtained by removing a number of amino acid residues from the C-terminal of the wild-type 1,3-1,4- β -D-glucanase of *Fibrobacter succinogenes*. The removal of the C-terminal amino acid residues can be conducted at the genetic level by modifying the gene encoding for the wild type enzyme using, for example, a PCR-based method. Or, it can also be conducted at the protein level by first producing the wild-type
10 enzyme protein and then subjecting the wild-type protein to certain protease action to remove a portion of its C-terminal.